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BOARD OF TRADE

# THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 54
SCIENTIFIC, SURGICAL
AND PHOTOGRAPHIC INSTRUMENTS, ETC.

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act, 1947 (10 & 11 Geo.6 Ch.39, Sec.7)

LONDON: HER MAJESTY'S STATIONERY OFFICE

1961

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These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years the census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to merchanting or factoring, canteens operated by them, and other ancillary activities, such as bottling, packing, and the manufacture of containers for packing their own products, whether or not these activities were carried on at the same address as the works, unless

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

(i) Working proprietors

These include all persons regarded as 'selfemployed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are

(ii) Employees Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses and, for 1958, canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included, but outworkers (i.e. persons employed by the firm who worked on materials

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchanted goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958. but because of the changes described above the correspondence is not always exact.

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchanting or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are therefore excluded. Materials purchased overseas were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

## NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses, and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchanting and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

## NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

## SALES

Sales include goods made by the business covered by the return, those made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission), and waste products sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production

The value shown for sales is the net selling

value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas, are included at the f.o.b. value. For work done on commission or for the trade, the value shown is the net amount charged. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

## STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchanting or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to subcontractors, and no deduction is made on account of progress payments received.

## TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of fanished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

## WAGES AND SALARIES

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

## WORK GIVEN OUT

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

## CAMBUIC HELD

The following symbols are used throughout the reports:

.. for not available

final digit shown)

## ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

## The Report on the Census of Production for 1958

## Part 54. SCIENTIFIC, SURGICAL AND PHOTOGRAPHIC INSTRUMENTS, ETC.

This report on the Scientific, Surgical and Photographic Instruments, etc. Industry relates to establishments engaged in the manufacture of photographic equipment including cameras, projectors, photographic accessories, photographic films and plates, sensitised paper, etc.; optical instruments including binoculars, telescopes, microscopes, ophthalmoscopes and the grinding of lenses; spectacles, monocles, goggles, etc. including frames; surgical cutlery, dental instruments, splints, trusses, artificial eyes, artificial teeth and artificial limbs, and other surgical and dental appliances, including electro-medical equipment (other than X-ray apparatus); and all other types of scientific instruments and equipment, excluding electronic instruments and engineers' gauges. The industry corresponds to minimum list heading 351 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds to Industry 5H in the reports on the last detailed Census of Production, for 1954, but micrometers, formerly included in this industry, now form part of minimum list heading 333 and are included in the report on Engineers' Small Tools and Gauges (Part 44). Electro-medical equipment and electrical measuring instruments, now included in this industry, were formerly reported on in Industry 4K (Electrical Engineering (General)). X-ray apparatus and electronic instruments form part of minimum list heading 364 and are included in the report on Radio and Other Electronic Apparatus (Part 59).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

## METHOD OF CLASSIFICATION

This industry is defined in terms of its principal products which are those shown in Table 4. A census return was classified to this industry if the principal products of this industry (including, as well as sales, ophthalmic prescription work and repair work on surgical instruments) accounted for a greater proportion of its output than the principal products of any other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. Sales of merchanted products and of non-specific items such as waste products and canteen takings were not taken into account in classifying returns.

Sales of data processing and handling equipment, which are produced by some firms otherwise engaged in this industry and also by firms in the Office Machinery Industry (Part 49) and the Radio and Other Electronic Apparatus Industry (Part 59) were not taken into account in determining to which of the three industries the return should be classified unless they accounted for more than 85 per cent. of total sales, in which case the return was classified to the Radio and Other Electronic Apparatus Industry.

A procedure similar to that described above for classifying to the industry was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their 'characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the products which define the sub-divisions, other items of output assumed to be closely related to them, e.g. waste products, but such items were not generally taken into account in determining the classification to sub-divisions.

Table No.

1

2

3

5

6

7

industry

Title

Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

Sales of principal products of the industry by establishments classified to other industries

Sales of other than principal products by larger firms in the

Employment and salaries, etc. for the week ended October 25, 1958

Industry summary: United Kingdom. Estimates for all firms

Analysis by size of enterprise within the industry, 1958

Analysis by sub-divisions of the industry

Total make of intermediate products, 1958

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## Industry summary: United Kingdom

TABLE 1 Estimates for all firms (a)

| tream of the anderry in         | retailed the constant                | Unit      | 1954    | 1958                |
|---------------------------------|--------------------------------------|-----------|---------|---------------------|
| Number of enterprises           | Special Photograph                   | No.       | ••      | 1,331               |
| Number of establishments        |                                      |           | - 1 The | 1,531               |
| drulp han                       | goods produced and work done         | £,000     | 127.694 | 162,638             |
| Sales                           | merchanted goods and canteen takings |           |         | 11.038              |
| Purchases of materials and      | fuel (b)                             |           | 47.838  | 66.527              |
| Products on hand                | change during year                   |           | + 909   | + 1.024             |
| for sale (b)                    | at end of year                       |           | 6.362   | 8.987               |
|                                 | Schange during year                  | to beauti | + 398   | + 1,149             |
| Work in progress                | at end of year                       | ab a 8    | 13.684  | 21.334              |
| Stocks of materials             | (change during year                  |           | - 318   | - 296               |
| and fuel (b)                    | at end of year                       | . 35      | 14.753  | 18.846              |
| Payments for work done on       | materials given out                  | any gett  | 2.515   | 2.690               |
| Payments for transport          |                                      | z zonyo   | 715     | 1,076               |
| Net output                      |                                      |           | 77,614  | 105,260             |
|                                 | (operatives                          | Th.       | 73.1    | 72.6                |
| Average number employed (c)     | other employees                      | 689.000 C | 24.8    | 31.9                |
| CR. N. 14 848, B. 51 404 1.35 3 | total, including working proprietors |           | 98.2    | 104.8               |
| or of so replace of             | fof operatives                       | £,000     | 29,898  | 37.263              |
| Wages and salaries              | of other employees                   |           | 14,132  | 22,700              |
| Capital expenditure (d)         |                                      |           |         | bis, pergapting the |
| New building work               |                                      |           | 1,087   | 3,208               |
| Plant and machinery             | \[ acquisitions \]                   |           | 2.441   | 4,376               |
| right did middlinery            | disposals                            |           | 121     | 96                  |
| N V 1 . 10-15 The bar of and    | \acquisitions                        |           | 486     | 779                 |
| Vehicles                        | disposals                            |           | 124     | 299                 |

<sup>(</sup>a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 9 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.
(b) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.
(c) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded for 1954.
(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions

TABLE 2

Firms employing 25 or more

|                             |                                       |          | Sub-div        | isions of                                 | the indust   | ry (b)                           |
|-----------------------------|---------------------------------------|----------|----------------|---|--|----------------------------------|
|                             |                                       | Unit     | cinemat        | phis and<br>ographic<br>atus and<br>ances | Sensitise<br>graphic p<br>films an<br>graphic<br>and c | lates and<br>d photo-<br>c paper |
|                             |                                       | usnep be | 1              | 1   | 1  | 2                                |
| 102 45                      | Market of the Contract of the State   |          | 1954           | 1958                                      | 1954   | 1958                             |
| Number of enterprises       | (c)                                   | No.      | 29             | 16  | 14   | 10                               |
| Number of establishmen      | its                                   |          | 36             | 19  | 28   | 28                               |
|                             | goods produced and work done          | £,000    | 5,430          | 5,806                                     | 25,665   | 32,739                           |
| Sales                       | merchanted goods and canteen takings  |          | o bea.is]      | 428                                       |  | 2,989                            |
| Sales of characteristi      | c products                            |          | 4,158          | 5,010                                     | 22,668   | 29,541                           |
| Purchases of materials      | and fuel (d)                          |          | 1,853          | 2,277                                     | 13,607   | 17,022                           |
| Products on hand            | change during year                    |          | + 29           | + 87                                      | + 404  | + 221                            |
| for sale (d)                | at end of year                        |          | 320            | 711                                       | 895  | 1,604                            |
| Work in progress            | change during year                    |          | + 8            | - 115                                     | + 249  | - 72                             |
|                             | at end of year                        |          | 698            | 753                                       | 1,501  | 1,911                            |
| Stocks of materials         | schange during year                   | inemoli  | - 46           | + 40                                      | - 118  | - 329                            |
| and fuel (d)                | lat end of year                       |          | 468            | 434                                       | 3,849  | 4,533                            |
| Payments for work done      | on materials given out                |          | 95             | 268                                       | 68   | 76                               |
| Payments for transport      |                                       |          | 28             | 60  | 132  | 149                              |
| Net output                  |                                       |          | 3,445          | 3,640                                     | 12,394   | 18,301                           |
| ana s                       | operatives                            | No.      | 2,876          | 2,386                                     | 6,625  | 7,702                            |
| Average number employed (e) | dother employees                      |          | 1,010          | 970                                       | 3,779  | 4,660                            |
|                             | (total, including working proprietors |          | 3,886          | 3,356                                     | 10,404   | 12,362                           |
| Net output per person       | employed                              | £        | 887            | 1,085                                     | 1,191  | 1,480                            |
| Wages and salaries          | fof operatives                        | £,000    | 1,231          | 1,076                                     | 2,995  | 4,860                            |
| barneouth accords           | of other employees                    |          | 513            | 812                                       | 2,270  | 3,447                            |
| Wages and salaries          | Soperatives                           | £        | 428            | 451                                       | 452  | 631                              |
| per head                    | other employees                       |          | 508            | 838                                       | 601  | 740                              |
| Capital expenditure (f      | )                                     | 1101111  | roos D. as les | GARRY TON                                 | behaloss<br>ontbetest                                  | 1507                             |
| New building work           |                                       | £,000    | 16             | 23  | 430  | 1,405                            |
| Plant and<br>machinery      | acquisitions                          | "        | 167            | 132                                       | 612  | 1,863                            |
|                             | (disposals                            | "        | 12             | 1   | 9  | 10                               |
| Vehicles                    | acquisitions                          | "        | 20             | 18  | 65   | 122                              |
|                             | disposals                             |          | 7              | 5   | 9  | 40                               |

of the industry

persons: United Kingdom (a)

| A High         |               | Sub-div | visions of  | the indust                  | try (b)                                     | ones a Unit toll | Resembles                       | TERRITAIN | amela   |
|----------------|---------------|---------|-------------|-----------------------------|---|------------------|---------------------------------|-----------|---------|
| Opti<br>instru |               |         | les, etc.   | and ver<br>instrum<br>appli | l, dental<br>terinary<br>ents and<br>tances | instrum<br>equi  | cientific<br>lents and<br>pment | То        | tal     |
| 1954           | 1958          | 1954    | 1958        | 1954                        | 1958  | 1954             | 1958                            | 1954      | 1958    |
| 21             | 24            | 82      | 78          | 98                          | 86  | 169              | 175                             | 408       | 384     |
| 30             | 36            | 129     | 117         | 135                         | 106   | 237              | 246                             | 595       | 552     |
| 7,573          | 6,810         | 9,666   | 11,541      | 11,710                      | 12,906                                      | 56,529           | 78,672                          | 116,573   | 148.473 |
|                | 414           |         | 2,185       | Se                          | 653   | 888.1.           | 3,408                           |           | 10,077  |
| 5,920          | 5,664         | 9,224   | 11,140      | 10,642                      | 11,785                                      | 41,873           | 66,858                          | e .       |         |
| 1,887          | 2,140         | 3,918   | 5,727       | 4,215                       | 4,862                                       | 18,192           | 28.705                          | 43,672    | 60,733  |
| + 5            | + 126         | + 53    | + 38        | - 48                        | + 51  | + 388            | + 411                           | + 830     | + 935   |
| 628            | 721           | 578     | 1,086       | 494                         | 557   | 2,893            | 3,526                           | 5,808     | 8,205   |
| + 264          | + 27          | + 6     | + 6         | + 34                        | + 65  | - 199            | +1,138                          | + 363     | + 1.049 |
| 2,263          | 1,467         | 320     | 358         | 888                         | 1,117                                       | 6,821            | 13,871                          | 12,492    | 19,476  |
| - 19           | + 30          | + 105   | + 1         | + 22                        | + 27  | - 235            | - 40                            | - 291     | - 270   |
| 619            | 461           | 1,163   | 1,251       | 1,511                       | 1,513                                       | 5,859            | 9,014                           | 13,468    | 17,205  |
| 87             | 140           | 30      | 37          | 113                         | 147   | 1,903            | 1,788                           | 2,296     | 2.455   |
| 31             | 37            | 27      | 59          | 84                          | 145   | 351              | 533                             | 653       | 982     |
| 5,818          | 5,090         | 5,856   | 7,948       | 7,306                       | 8,549                                       | 36,036           | 52,563                          | 70,854    | 96,092  |
| 6,256          | 4,053         | 8,477   | 8,144       | 8,896                       | 8,119                                       | 33,802           | 36,030                          | 66,932    | 66,434  |
| 1,896          | 1,521         | 1,427   | 1,508       | 2,170                       | 2,248                                       | 12,413           | 18,293                          | 22,695    | 29,200  |
| 8,152          | 5,574         | 9,911   | 9,657       | 11.071                      | 10,368                                      | 46,221           | 54,330                          | 89,645    | 95,647  |
| 714            | 913           | 591     | 823         | 660                         | 825   | 780              | 967                             | 790       | 1,005   |
| 2,613          | 2,008         | 2,986   | 3,532       | 3,409                       | 3,845                                       | 14,132           | 18,785                          | 27,365    | 34,106  |
| 1,038          | 1,230         | 829     | 1,167       | 1,240                       | 1.543                                       | 7,044            | 12,577                          | 12,935    | 20,777  |
| 418            | 495           | 352     | 434         | 383                         | 474   | 418              | 521                             | 409       | 513     |
| 548            | 809           | 581     | 774         | 572                         | 686   | 567              | 688                             | 570       | 712     |
|                | policy by the |         | SUPPL STORY | TOTAL THE                   | ideas sine                                  | TO TO TAKE       | Therage in                      |           |         |
| 56             | 41            | 22      | 12          | 20                          | 222   | 405              | 1,166                           | 948       | 2,869   |
| 162            | 123           | 120     | 132         | 157                         | 228   | 1,010            | 1,513                           | 2,229     | 3,991   |
| 10             | 7             | 17      | 7           | 13                          | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1       | 49               | 52                              | 110       | 87      |
| 12             | 17            | 48      | 76          | 47                          | 74  | 252              | 403                             | 444       | 711     |
| 2              | 6             | 19      | 37          | 12                          | 38  | 64               | 147                             | 114       | 273     |

For footnotes to the table, see next page

## Analysis by size of enterprise within the industry, 1958

TABLE 3

Firms employing 25 or more persons: United Kingdom

| Average number employed by the enterprise in this industry (α)  25 - 49  50 - 99  100 - 199  200 - 299  300 - 399  400 - 499  500 - 749  750 - 999 | Enter- | Estab-         | Total     | Net      | Emplo                               | yees   | Wages and | salaries | Capital              | Net out-<br>put per       |
|--|--------|----------------|-----------|----------|-------------------------------------|--------|-----------|----------|----------------------|---------------------------|
|  | prises | lish-<br>ments | sales (b) | ou tpu t | Operatives Others Operatives Others |        |           |          | expendi-<br>ture (c) | person<br>employed<br>(a) |
|  | Number | Number         | £,000     | €,000    | Number                              | Number | £,000     | £.000    | €,000                | £                         |
| 25 - 49  | 116    | 123            | 5,837     | 3,517    | 3,378                               | 905    | 1,513     | 652      | 124                  | 820                       |
| 50 - 99  | 100    | 117            | 10,310    | 5,639    | 5,182                               | 1,697  | 2,335     | 1,253    | 315                  | 819                       |
| 100 - 199  | 77     | 112            | 15,470    | 9,414    | 8,396                               | 2,472  | 4,044     | 1,890    | 417                  | 866                       |
| 200 - 299  | 29     | 40             | 10,292    | 6,233    | 4,838                               | 1,985  | 2,348     | 1,447    | 281                  | 913                       |
| 300 - 399  | 20     | 33             | 10,830    | 6,029    | 5,028                               | 1,579  | 2,481     | 1,103    | 308                  | 912                       |
| 400 - 499  | 3      | 4              | 2,367     | 1,356    | 801                                 | 526    | 409       | 299      | 41                   | 1,022                     |
| 500 - 749  | 11     | 19             | 9,691     | 6,115    | 4,496                               | 2,054  | 2,404     | 1,393    | 400                  | 934                       |
| 750 - 999  | 7      | 16             | 10,660    | 5,535    | 3,913                               | 1,911  | 2,206     | 1,263    | 1,069                | 950                       |
| 1,000 - 1,499  | 10     | 41             | 15,575    | 10,679   | 9,739                               | 2,320  | 4,661     | 1,676    | 318                  | 885                       |
| 1,500 - 1,999  | 4      | 8              | 9,532     | 5,955    | 4,271                               | 2,207  | 2,287     | 1,620    | 524                  | 919                       |
| 2,000 - 3,999  | 3      | 13             | 11,997    | 7,293    | 4,365                               | 2,993  | 2,125     | 1,961    | 321                  | 991                       |
| 4,000 - 7,499  | 4      | 26             | 45,988    | 28,328   | 12,027                              | 8,551  | 7,292     | 6,221    | 3,451                | 1,376                     |
| Total  | 384    | 552            | 158,550   | 96,092   | 66,434                              | 29,200 | 34,106    | 20,777   | 7,570                | 1,005                     |

(a) Including working proprietors.
 (b) Value of sales of goods (including merchanted goods), work done, and canteen takings.
 (c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

## Footnotes to Table 2

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

Number of returns Average number of persons employed including 915 working proprietors

5,983 2,261 Males Females

- (b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.
  (c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent
- that enterprises made returns for more than one sub-division.
- (d) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.
- (e) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded
- (f) Excluding expenditure at establishments not yet in production.

## Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

| dustry                 | C'900 Thousand C'930 Cham   | 195       | 54         |                  | 1958   |                  |              |
|------------------------|---|-----------|------------|------------------|--|------------------|--------------|
| sub-<br>ivision<br>(a) |   | Quantity  | Value      | Quantity         | Value  | Enter-<br>prises | Entries      |
| 30                     | Ophthalmic instruments and appliances  Spectacles, pince-nez, eyeglasses and monocles                       | Th.doz.   | €.000      | Th.doz.          | £.000  | Number           | Number       |
|                        | Complete with lenses (other than sunglasses with unworked lenses)   | 186       | 1,747 {    | 55.3             | 526<br>111                                   | } 23             | 25           |
|                        | Sunglasses with unworked lenses   |           | (b) {      | 175              | 173<br>126                                   | } 15             | 15           |
|                        | Frames  |           |            | departingo,      | Tarresum Treati<br>Tarres                    | 99.005           | The state of |
|                        | Wholly or mainly of metal   | 185       | 1,026 {    | 60.6             | 366<br>221                                   | } 14             | 15           |
|                        | Wholly or mainly of plastic   | 305       | 1,273      | 315              | 1,515  | 44               | 52           |
|                        | Other   | 3.4       | 32<br>9    | 5.9              | 57<br>117                                    | 9                | 9            |
|                        | Finished lenses optically worked,<br>mounted or unmounted, sold<br>separately                               | Thousands | 1,800      | Thousands 28,415 | 3,053  | 23               | 31           |
|                        | Other parts of spectacles, pince-nez, eyeglasses and monocles (including unworked and semi-finished lenses) |           | 928        | ribari.          | 702  | 18               | 21           |
|                        | Other ophthalmic appliances and parts<br>thereof, excluding ophthalmic<br>prescription work                 |           | 590        | Realing and      | 356  | 12               | 12           |
|                        | Total spectacles, etc.  | a .07 .   | 7,405      | anti-see         | 7,323  | SPECIE.          |              |
| 20                     | Other optical instruments and appliances and parts thereof  Finished lenses and other optical               |           |            | and Tangold      | men sare<br>en am les<br>Laterben<br>engenen | Paggint          |              |
|                        | elements, optically worked, mounted or<br>unmounted, sold separately  |           |            | burasi isot      | mann hans an                                 | es albana        |              |
|                        | Photographic and cinematographic Other (excluding ophthalmic)   | . som si  | 1,169      |                  | 1,136  | 19               | 21           |
|                        | Telescopes, binoculars and monoculars, {  | 11.6      | 296<br>206 | 15.3             | 392<br>163<br>233                            | 18               | 19           |
|                        | Parts of microscopes, telescopes,<br>binoculars and monoculars, except<br>lenses and other optical elements | 0.20      | 143        | and this         | 178  | 14               | 15           |
|                        | Optical land surveying instruments and equipment  |           | 714        | Santan See       | 728  | 5                | 5            |
|                        | Optical nautical, aeronautical and gunnery control instruments  |           | 873        | Distriction      | 1,322  | 14               | 14           |
|                        | Optical spectroscopes, spectrometers and spectrographs  |           | (b)        |                  | 348  | 9                | 9            |
| 453                    | Engineers' gauges and measuring   |           |            |                  |  | 1500             |              |

Continued on next page

TABLE 4 (contd.)

| Industry<br>sub- |  | 19               | 54                  | 1958   |             |                  |        |  |
|------------------|--|------------------|---------------------|--|-------------|------------------|--------|--|
| division<br>(a)  | samail to the Court  | Quantity         | Value               | Quantity   | Value       | Enter-<br>prises | Entrie |  |
| 20               | Other optical instruments and appliances and parts thereof (contd.)  | Thousands        | \$,000              | Thousands  | £,000       | Number           | Numbe  |  |
| recain!          | Microscopes, complete  |                  |                     | 10.6   | 840         | 10               | 11     |  |
| 39.4             | Other optical instruments and appliances including industrial and surgical instruments (but excluding photographic and cinematographic   | <b>}</b>         | 2,633               | ga bas es den<br>pers, lares-es                    |             | Option 25        | ***    |  |
| 32               | instruments) and parts thereof   | J                | mads to             | dio) sesseri                                       | 1,632       | 24               | 26     |  |
| 817.5            | Total other optical instruments and appliances   |                  | 6,715               | nostronu di  | 7,448       | 21               |        |  |
| 40               | Dental instruments, appliances and equipment   |                  |                     | 122  |             | 3                |        |  |
| 15               | Dental instruments   |                  | 361                 | nes to yield                                       | 450         | 8                | 8      |  |
| V.               | Other dental surgery and laboratory equipment  | 300              | 658                 | oly to glate                                       | 659         | 6                | 6      |  |
|                  | Artificial teeth, crowns and facings   | -                |                     | 2.35   |             |                  |        |  |
|                  | Porcelain  | 17,965           | 233                 | 16,685   | 232         |                  |        |  |
| 25               | Plastic  | 18,205           | 261<br>157          | 38,033   | 528         | 7                | 7      |  |
|                  | All other dental goods   |                  | 737                 | enterinera i                                       | 1,197       | 14               | 15     |  |
| 40               | Medical, surgical, veterinary and dissecting instruments, appliances and equipment (other than optical, ophthalmic, electrical and electronic, and dressings)  |                  | tanami or contracts | de analysies a<br>les analings a<br>los sign per l |             | era 1            |        |  |
|                  | Surgeons' suture needles   | Th.gross<br>70.6 | 135                 | Th.gross   | 189         | 7                | 7      |  |
|                  | Hypodermic needles   | 164              | 330 (c)             | 170  | 347         | 6                | 6      |  |
|                  | Surgical and veterinary cutlery  |                  | (b)                 | Pan stranger                                       | 141         | 6                | . 6    |  |
|                  | Other medical, surgical and veterinary instruments   |                  | (b)                 | tedio bgo  | anneal bade | ints             |        |  |
| 18,              | Medical and surgical instruments, unclassified   |                  | 1,442               |  | 982         | 25               | 25     |  |
| er :             | Sterilising equipment including autoclaves   | Th.doz.          | 828                 | Th.doz.  | 906         | 25               | 25     |  |
| 41               | Aseptic hospital furniture   | . 3 . T.L.       | 1,096               | bao eralum   | 769         | 30               | 30     |  |
|                  | Surgical hosiery   | 95.0             | 621                 | 134  | 1,001       | } 16             | 16     |  |
|                  | AND LONG OF THE RESIDENCE OF THE PARTY OF TH |                  | 317                 | a lesitable  | 303         | J                |        |  |
| 2 44             | Artificial limbs Other appliances, including trusses,  | ••               | 525                 | teal onlyer  | 772         | 5                | 6      |  |
|                  | surgical boots, and artificial eyes  |                  | 1,848               | Stange ton ?                                       | 2,040       | 29               | 32     |  |
| 21.              | Anaesthetic and resuscitation apparatus  | }                | 734                 | TARKETT BULL                                       | 146         | 6                | 6      |  |
| e                | Other equipment  | J                | U                   | • • •  | 512         | 16               | 16     |  |

TABLE 4 (contd.)

| ndustry                |  | 19        | 54         |   | 1958       |                  |         |  |
|------------------------|--|-----------|------------|---|------------|------------------|---------|--|
| sub-<br>ivision<br>(a) | Pales Simular Value priore   | Quantity  | Value      | Quantity                                | Value      | Enter-<br>prises | Entries |  |
| elastii.               |  | Thousands | £.000      | Thousands                               | £,000      | Number           | Number  |  |
| 40                     | Hearing aids with valve or transistor amplification  |           | 125        | { 97.2                                  | 1,250      | } 13             | 13      |  |
| 40                     | Electro-medical, including electronic medical and surgical measuring and testing instruments (excluding X-ray apparatus) |           | 1,725 }    | bun ingpo a<br>if radio) we<br>bec init | 1,155      | 27               | 29      |  |
|                        | Total dental, medical, surgical, veterinary and dissecting   |           | arios os   | Tan driv he                             | isetanidi. |                  |         |  |
|                        | instruments, appliances and equipment  |           | 12,008     | aggo frankra                            | 13,721     | ••               | ••      |  |
|                        | Photographic and cinematographic apparatus and appliances  |           |            | the officials                           |            |                  |         |  |
| 11                     | Cameras, complete  |           |            |   |            |                  |         |  |
|                        | Cine-cameras   | 11.4      | 329<br>42  | }                                       | 718        | 7                | 7       |  |
|                        | Still cameras  |           |            |   |            |                  |         |  |
| 14                     | Precision  | 1.9       | 48<br>457  | 0.7                                     | 99<br>330  | } 10             | 10      |  |
|                        | Other  |           |            |   |            | 1000             |         |  |
|                        | Folding  | 135       | 385<br>219 | } 53.5                                  | 236        |                  |         |  |
|                        | Box  | 1,485     | 1.005 {    | 704                                     | 619<br>142 | }                |         |  |
| 11                     | Projectors, complete   |           |            |   |            |                  |         |  |
|                        | Cinematographic projectors (excluding sound reproducing apparatus, sold separately)                                      | 6.7       |            | wee pay ero                             |            | left.            |         |  |
|                        | Standard (35 mm. gauge)  |           |            | 0.6                                     | 202        | 18               |         |  |
|                        | Sub-standard   |           | 1,198      |   |            | 473              |         |  |
|                        | 16 mm. gauge   | 1         |            |   | 1,009      |                  |         |  |
|                        | Other  | 6.6       | 74<br>226  | } 10.9                                  | 245        | 6                | 6       |  |
|                        | Still projectors   | 33.9      | 391        | 87.2                                    | 846        | 6                | 6       |  |
|                        | Other photographic and cinematographic apparatus and accessories (except lenses and photographic chemicals)              |           | und fair   | SEC. 0787656                            |            |                  | en ur   |  |
| & 12                   | Cinematograph (including cinematograph film, blank (raw film or stock))  | h         | 5,467      | escriposbes<br>escriposbes              | 6,868      | 14               | 16      |  |
| 11                     | Other than cinematograph   |           |            |   |            |                  |         |  |
|                        | Developing, printing and enlarging apparatus   | 8.8.      | 812        |   | 1,015      | 13               | 13      |  |
|                        | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |           | 1,207      |   | 1,438      |                  | 48      |  |

Continued on next page

TABLE 4 (contd.)

| Industry<br>sub- | 1959.  | 19                     | 54           |  | 1958             |                  |         |
|------------------|--|------------------------|--------------|--|------------------|------------------|---------|
| division<br>(a)  | False Queetting Selve Correspond   | Quantity               | Value        | Quantity                               | Value            | Enter-<br>prises | Entries |
| Repoper          | Photographic and cinematographic apparatus and appliances (contd.)   | Thousands              | €,000        | Thousands                              | £,000            | Number           | Number  |
| 12               | Sensitised photographic plates and films and photographic paper and cloth  |                        |              | en edibles                             | Amalton-         | Lines            |         |
| 60               | Plates and films (other than cinematograph film) and paper and cloth (other than paper sensitised with silver salts) |                        | 12 901       |  | parts in         | Table 1          |         |
|                  | Paper sensitised with silver salts, other than document copying paper  |                        | 13,891       |  | 21,221           | 8                | 8       |
|                  | Document copying paper   |                        | 728          | ]                                      | 949              |                  |         |
|                  | Total photographic equipment   | ••                     | 29,517       | ************************************** | 35,937           |                  |         |
| 50               | Scientific, industrial, etc. instruments and apparatus not elsewhere specified                                       | 4.73                   |              |  | niquos es        | esaQ             |         |
|                  | Aeronautical electrical instruments  |                        | 7,076        |  | 5,888            | 15               | 19      |
| 72               | Electrical measuring instruments<br>(excluding supply meters and<br>instruments for motor vehicles)                  |                        | 5,692        | 10.00                                  | 6,721            | 47               | 51      |
|                  | Thermometers   |                        |              |  |                  |                  |         |
|                  | Clinical   | 3,761                  | 739 {        | 2,901                                  | 303              | 5                | 5       |
|                  | Other liquid in glass  | 5 3,761                | /33 ]        | 1,945                                  | 540              | 12               | 12      |
|                  | Other kinds including vapour pressure and mercury in steel   | 267                    | 940          |  | 1,019            | 15               | 16      |
|                  | Laboratory instruments and apparatus   | The special section is |              | 2019494949                             | SURVEY PROPERTY  |                  |         |
|                  | Baths, incubators and ovens  | 6.7                    | 364<br>100   | } 10.7                                 | 631              | 10               | 10      |
|                  | Blood, diagnostic apparatus  | ]                      | 23 {         | traper- and                            | Or Sur-jept      | -                | -       |
|                  | Stills   | ]                      | 20 ]         |  | 10               |                  |         |
|                  | Centri fuges   | 2.4                    | 169          | 2.3                                    | 259              | 8                | 8       |
| a                | Microtomes   | 0.5                    | 26 {         | 0.4                                    | 23<br>23         | } 7              | . 7     |
|                  | Other, including special purpose<br>laboratory instruments not elsewhere<br>specified                                |                        | - {          | 1.7                                    | 37<br>516        | } 20             | 20      |
|                  | Barometers, hygrometers and similar instruments (excluding thermometers) and barographs, hydrographs,                |                        |              | and aldered                            | one bus ses      |                  |         |
| 1.5              | thermographs, sunshine recorders, rain gauges, anemometers, etc.   | }                      | 344 {        | to still to:                           | 452              | 15               | 16      |
|                  | Hydrometers  | ]                      | L            |  | 31               | 5                | 5       |
|                  | Precision balances   | 4.9                    | 244<br>80    | 8.2                                    | <b>484</b><br>68 | } 10             | 10      |
|                  | Thermostats (including automatic control apparatus for refrigerating and heating)                                    |                        | 4,107<br>922 | 8,318                                  | 5,228<br>555     | } 27             | 28      |

Continued on next page

TABLE 4 (contd.)

| lustry                | 9861   | 19         | 54                                     |   | 1958                     |                               | (3.7 auburi |
|-----------------------|--|------------|--|---|--------------------------|-------------------------------|-------------|
| sub-<br>vision<br>(a) | to 25 Marines Large Connection Value Dates   | Quantity   | Value                                  | Quantity                                    | Value                    | Enter-<br>prises              | Entries     |
| 50                    | Scientific, industrial, etc. instruments and apparatus not elsewhere specified (contd.)  | Thousands  | £.000                                  | Thousands                                   | €.000                    | Number                        | Number      |
| 15 1                  | Industrial process measuring and control instruments (including electronic)  | 2/80G      | Tueses                                 | revolvation                                 |                          |                               | 98          |
| 2                     | Pyrometers and temperature gauges, recorders and controls, other than thermostats  | 20         | 1,047 2,073                            | 32  | 1,978                    | } 27                          | 28          |
|                       | Other process measuring and control instruments; indicating, regulating, recording and controlling (excluding vapour pressure and mercury in | 345        | 4.400                                  | e on conclus                                | seb siev to<br>Zoprámorá |                               |             |
|                       | steel thermometers, computers and water supply meters)   |            | 6,389 {                                | 749   | 4.722<br>15,505          | 93                            | 111         |
|                       | Water supply meters  | 101        | 695<br>759                             | 148   | 1,039                    | } 21                          | 25          |
|                       | Mathematical and precision drawing instruments and machines and parts thereof  |            | 534                                    | elo kvonboro<br>Zmada i korin               | 687                      | 11                            | 11          |
|                       | Surveying instruments and apparatus (other than optical and electronic)  | 100 its 10 | 60                                     | s one to the                                | 956                      | 9                             | 9           |
|                       | Gunnery control apparatus (other than optical)   | Alman ton  | 1,701                                  | i da da por r                               | 1,879                    | 12                            | 12          |
|                       | Nautical instruments not elsewhere<br>specified (other than optical<br>instruments)  | S up block | er da resenta<br>typlkebucasa<br>sast. | lntor est e<br>ee folknoses<br>ee folknoses | Tales and                | op and<br>open as<br>opens on | 7 (6)       |
|                       | Echo sounders  | }          | 4,176                                  | 1.0   | 788                      |                               |             |
|                       | Other  Aeronautical instruments not elsewhere  | )          | l                                      | 32.   | 3.547                    | 20                            | 21          |
|                       | specified (other than optical and electrical instruments)  | ]          | 3,492                                  | 43  | 4,389                    | 17                            | 20          |
|                       | Oxygen breathing apparatus   |            |  | ••  | 1,907                    | 10                            | 10          |
|                       | Scientific instruments and apparatus and parts thereof not elsewhere specified   | 40.7       | 601<br>8,004                           | 78.2  | 672<br>5,844             | 81                            | 86          |
|                       | Total other scientific,<br>industrial, etc. instruments  |            |  |   |                          |                               |             |
|                       | and apparatus  | ••         | 50,355                                 | ••  | 69,128                   | ••                            | ••          |
|                       | Other principal products   |            | 6,421                                  | ••  | 4,775                    | 77                            | 79          |
|                       | Waste products   |            | 640                                    |   | 707                      | 87                            | 107         |

Continued on next page

TABLE 4 (contd.)

| Indus try               | · (corea.)  |          | 19             | 54           |  | 1958         |                  |                |
|-------------------------|---|----------|----------------|--------------|--|--------------|------------------|----------------|
| sub-<br>division<br>(a) | calcal sector streams a   | nakoV.   | Quantity       | Value        | Quantity                                 | Value        | Enter-<br>prises | Entries        |
| Musher                  | Work done   | 5013     | o Bannanny III | £.000        | " Nicologue<br>Dis Inlais<br>Groowsels I | £.000        | Number           | Number         |
|                         | Research and development work<br>customers including Governmen<br>Departments | t        |                | 141 (c)      | (23 meloski sapt<br>(20 jaž) servens     | 4,225        | 53               | 58             |
| 30<br>40                | Ophthalmic prescription and re  | Latent 1 |                | 1,964        | incurrence the                           | 4,124        | 59               | 69             |
| 40                      | Repair work on surgical instru Other repair work for customer                 | s        | 48             | 145<br>2,704 | ed controls.                             | 102<br>4,562 | 19               | 20<br>142      |
|                         | Other work done on commission, sub-contract work, etc.                        |          |                | 2,006        | pakimpioni<br>Silvatam ka<br>Tea man man | 2,698        | 49               | 52             |
| III                     | Total   |          |                | 120,019      | inter profession<br>interdement          | 154,750      | ••               |                |
| 385                     | Sales in other industries<br>Table 5)   | (see     | 1000           | 14,227       | 22430                                    | 14,940       | a 8              |                |
| 11.                     | Principal products of this<br>sold by establishments in<br>industry           |          |                | 105,792      | ovalaben be                              | 139,809      | 384              | <b>438</b> (d) |

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division

(b) Not separately recorded.
(c) So far as separately recorded.
(d) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

Sales of principal products of the industry by establishments classified to other industries

TABLE 5 Firms employing 25 or more persons: United Kingdom

|   | 19           | 54    |          |  | 1958  | tanker the control   |
|---|--------------|-------|----------|--|---|--|
|   | Quantity     | Value | Quantity | Value                                      | Entries   | Principal<br>industries in<br>which produced (a)                           |
| action of times designed by cooper will   | 19.44        | £,000 |          | £,000                                      | Number  | and the second second  |
| Ophthalmic instruments and appliances and parts thereof   | •••          | 154   |          | 250  |   | 53, 124, 126, 127  |
| Engineers' gauges and measuring instruments, optical  |              | 105.  |          | 47   |   | (b)  |
| Other optical instruments and appliances (excluding photographic and cinematographic instruments) and parts thereof   | }            | 440 { |          | 493  | th multi-   | 53. 56. 59. 106  |
| Dental instruments, appliances and equipment  |              | 15    | ••       | 31   | # 10 f y 2  | 53, 108  |
| Medical, surgical, veterinary and dissecting instruments, appliances and equipment (other than optical, ophthalmic, electrical and electronic, and dressings) | a secondari  | 88    |          | unibul<br>uphs,<br>aragement<br>u bulances | ote) eter<br>pored ba<br>deriposo<br>dibi ere<br>storigi  |  |
| Surgeons' suture needles  | 3822 a. f    | 28    | den      | Carrier Const.                             | no palkel   | eat) transmissif   |
| Hypodermic needles, surgical and veterinary cutlery and other medical, surgical and veterinary  | ab to 1      | 1 00  |          | 134  | 7   | 28. 70. 75   |
| instruments Aseptic hospital furniture  | The state of | 612   |          | 439  | 20  | 75. 113  |
| Surgical hosiery, artificial limbs and other appliances, including trusses, surgical boots and  |              |       |          | Whom soo                                   | reques<br>on Wrob<br>Interpre   | as arriamety?<br>Court Landson<br>Franks redically                         |
| artificial eyes   |              | 324   |          | 520  | 10  | 82, 85, 101, 111   |
| Sterilising equipment including autoclaves  | subjected    | 248   |          | 425  | 16  | 50, 53, 60, 75   |
| Anaesthetic and resuscitation apparatus   | ] }          | 301   | J        | aputers.                                   | i yranias   | Bar workers questa And ?   |
| Other equipment   | J            | sas   | 0. 81    |  | -   | and the same same of the   |
| Hearing aids with valve or transistor amplification   |              | 1.16  | 22.2     | 108  | 6   | 59   |
| Electro-medical, including electronic medical and surgical measuring and testing instruments (excluding X-ray apparatus)                                      |              | 190   |          | 745  | 15  | 56. 59. 60   |
| Photographic and cinematographic apparatus and appliances   |              |       |          | han si                                     | das oqqii s   | Cappen breathin<br>descentifical   |
| Cameras and projectors, complete  |              | 74    |          | STORY THE                                  | Less to the state of the state | la han incline   |
| Cinematographic apparatus and acessories (including cine-matograph film, blank (raw film or stock)  | ]            | -     | .}       | 165  | on , where<br>or then o<br>enhading   | 53, 59, 61   |
| Sensitised photographic plates<br>and films and photographic paper<br>and cloth (other than paper<br>sensitised with silver salts)                            |              | 78 <  | -        | redict of a                                | a proggo<br>redio bas<br>intoggo b  | conners control Gonners control thus optical) instruments an parts thereof |
| Other photographic apparatus and accessories, other than cinematographic  |              | 261   |          | 660  | 36  | 59, 60, 61, 126  |

TABLE 5 (contd.)

and parts thereof. surveying instruments and apparatus (other than optical and electronic)

Nautical instruments, not elsewhere specified (other than optical instruments) excluding echo

Gunnery control apparatus (other

than optical) and other scientific instruments and apparatus and parts thereof, not elsewhere

Oxygen breathing apparatus and aeronautical instruments, not elsewhere specified (other than

optical and electrical

instruments)

sounders

specified

Value

Quantity

1954

## Sales of other than principal products by larger firms in the industry

| Aber 1  |                      |           |             |                       | -                                       | which produced (a)   | TABLE 6 Firms employing 25 or  | more persons:                           | United Kingdom    | All works and the                            | 7 2.37    |
|---|----------------------|-----------|-------------|-----------------------|---|--|--|---|-------------------|--|-----------|
|   | Thousands            | £, 000    | Thousands   | £,000                 | Number                                  | The state of the s | regardantal Langillanium Con a lectambate to a   | 1 5000000000000000000000000000000000000 | 154               | 19   | 958       |
| cientific, industrial, etc.   |                      |           |             |                       |   | - Halland Marie  | Extense of relation between the bullion of the second  | Quantity                                | Value             | Quantity                                     | Value     |
| nstruments and apparatus not else-<br>here specified  | TI LI CORD           | nutny     | walteness)  |                       |   |  | TOTAL CONTROL OF THE PARTY OF T |   | £,000             |  | £, 000    |
| deronautical electrical instruments   |                      |           | -           | -                     | -                                       |  | Miscellaneous chemical products  | S. Marine of C. Line                    | 365               | e willenisco an                              | 535       |
| Clectrical measuring instruments (excluding supply meters and   | }                    | 1.735 <   |             |                       |   | 2010年  | Castings of brass and other copper alloys, and other metal manufactures  | 345,62                                  | 50                | r hilliant bar auch                          | 164       |
| instruments for motor vehicles)   | J                    | 82 L      | L           | 1.876                 | 22                                      | 56, 59, 60, 61   | Engineers' small tools and gauges  |   | 1.402             | ••   | 646       |
| hermometers other than clinical   |                      | 105       |             | 120                   |   | 53, 106  | Pressure quuqes  | Th.doz.<br>28                           | 153               | Th.doz.                                      | 000       |
| aboratory instruments and   |                      |           |             | 1 7-                  | 100                                     | STORY OF STREET  | 20 21 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   | 70 5              | \\ \{ \                                      | 208       |
| apparatus, including special purpose laboratory instruments but excluding baths, incubators and ovens, blood diagnostic |                      | 7 034     | 1           | oddgarga<br>eshtei    |   | Tani lostion sasion<br>confinence (evode)<br>controllessorion  | Vacuum gauges  Metal working machine tools, mechanical handling equipment and office and other non-electrical  |   |                   | J. A. S. |           |
| apparatus, centrifuges,<br>microtomes and stills  | -                    | -         |             | 41                    |   | 65, 110  | machinery, complete and parts Industrial plant and steel work, ordnance and  | •                                       | 6 07              | A Andrews                                    | 556       |
| Barometers, hygrometers and   | 7.7                  | 1 94      |             |                       |   | THE RELEASE  | small arms and other mechanical engineering  | ••                                      | 381               | 10 10 a                                      | 624       |
| similar instruments (excluding thermometers) and barographs.  |                      | -         |             | fame year             | 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 | Linospage Linoshaw   | Electrical machinery Nucleonic instruments   | rate. for the                           | 6 57              | Basic Logica                                 | 33        |
| hygrographs, thermographs, sunshine recorders, rain gauges,   | a tabustas<br>a taba | 88        |             | 163                   | padr yea                                | 53, 59, 61   | Insulated wire and cables and telegraph, telephone, radio and other electronic apparatus   | arec some to 62                         | 2,938             |  | 3,992     |
| anemometers and precision balances  |                      | 00        |             | 100                   | 1 50.5 1680                             | 00, 00, 01   | Domestic electric appliances and other electrical goods  |   | 1,435             |  | 385       |
| Thermostats (including automatic control apparatus for refrigerating and heating)                                       | 940                  | 379<br>66 | 3 ,127      | 1,695                 | 7                                       | 56, 60, 61   | Motor vehicle and aircraft parts and accessories and marine engineering  | 167 666                                 | 1.199             | 1927   |           |
| industrial process measuring and control instruments (including   |                      |           |             | Tedio bar<br>taribary | o ban li                                | troulister bas   | Metal furniture and other miscellaneous metal  |   | 434               |  | 82        |
| electronic)   | 100 0 100 E          | 2000      | Berger Base | in the s              | to the state of                         | Almentaliani<br>Alitika  | Gloves, footwear, and weatherproof outerwear   |   | 68                | ***************************************      | SOLE DWIN |
| Pyrometers and temperature gauges, recorders and controls   | 1                    |           | П           | William Cone          | S. E. SELENIE                           | Pasiqual olyquel   | Timber buildings, furniture and other wood manufactures  |   | 27 9              |  |           |
| other than thermostats  |                      |           |             | 68                    | 9                                       | 44. 52   | Plastic goods  |   | 91                | or second to a                               | 205       |
|   |                      | 100       |             | 500                   | 13 504 (1                               | 20186 Japanini   | Scientific glassware   | 1                                       | 297               | Maria Maria                                  | 197       |
| Other process measuring and control instruments; indicating,  |                      | 3,174     | {           |                       |   |  | Other products   |   | 25/ 1             |  | 121       |
| regulating, recording and controlling (excluding vapour   |                      | 862       |             | pathok                | 50 4 3 5 9 SEC                          | per printing and p | Work done  |   | 353               | of Post-                                     | 68        |
| pressure and mercury in<br>steel thermometers, computers<br>and water supply meters)                                    |                      |           | 101         | 247                   | } 46                                    | 50, 56, 58, 59   | Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)  |   | Carlotte Carlotte |  | 9,487     |
| and water supply meters,  | 49.0                 | 266       | 1           |                       | 7.4                                     | 50 62  | Canteen takings  | 07 5100                                 | est tell best yes | bites and Cest                               | 590       |
| Water supply meters   |                      | 97        | }           | 165                   | 14                                      | Allo aben delimen  | Total  |   | ••                |  | 18,74     |
| Water supply meters  Mathematical and precision drawing instruments and machines  | 49.0                 | 266<br>97 | }           | 165                   | 14                                      | 50, 62   | Ortholis parametr logice views   | 07 12 27                                | lega Lectron be   | L Esperations                                |           |

Principal

industries in

43, 50, 61, 71

35, 53, 55, 56

1.368

2,275

14,940

Entries

14.227 (a) The references given are to the list of industries at the back of this report.

44

786

83

4,632

..

..

(b) Production is widely distributed.

Total make of intermediate products, 1958

TABLE 7 Firms employing 25 or more persons: United Kingdom

|  | Returned in this industry |                  |         | Returned in all industries |                  |         |
|--|---------------------------|------------------|---------|----------------------------|------------------|---------|
| Value   Principle   Page   | Quantity                  | Enter-<br>prises | Entries | Quantity                   | Enter-<br>prises | Entries |
|  | Thousands                 | Number           | Number  | Thousands                  | Number           | Number  |
| Finished lenses, optically worked, mounted or unmounted, sold separately | 28.748                    | 23               | 31      | 28.748                     | 23               | 31      |

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

| Agricultural control of and and are and and are and are are and are are and are | Males          | Females  | Total     |  |
|---|----------------|----------|-----------|--|
|   | Number         | Number   | Number    |  |
| Working proprietors   | 1000000111 100 | 2        | 13        |  |
| Operatives .  | 44,587         | 21,245   | 65,832    |  |
| Administrative, technical and clerical employees  | 18,619         | 10,497   | 29,116    |  |
| Total employees   | 63,206         | 31,742   | 94,948    |  |
| iverage salaries, etc. paid per head for the week to administrative, technical and clerical employees               | £<br>17.6      | £<br>7.3 | £<br>13.9 |  |

## Part

- 1 Introductory Notes

- 2 Coal Mining 3 Stone and Slate Quarrying and Mining 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying
- 6 Salt and Miscellaneous Non-metalliferous Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery 14 Fruit and Vegetable Products 15 Animal and Poultry Foods

- 16 Margarine
- 17 Starch and Miscellaneous Food Industries
- 18 Brewing and Malting

- 19 Spirit Distilling and Compounding 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers, and Chemicals for Pest Control
- 27 Coal-tar Products 28 Chemicals (General)
- 29 Pharmaceutical Preparations
- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishes
- 37 Gelatine, Adhesives, etc. 38 Iron and Steel (General)
- 39 Steel Tubes
- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
- 42 Agricultural Machinery (except Tractors)
  43 Metal-working Machine Tools
- 44 Engineers' Small Tools and Gauges
- 45 Industrial Engines
- 46 Textile Machinery and Accessories
- 47 Contractors' Plant and Quarrying Machinery

- 48 Mechanical Handling Equipment
  49 Office Machinery
  50 Miscellaneous (Non-electrical) Machinery
  51 Industrial Plant and Steelwork
  52 Ordnance and Small Arms
  53 General Mechanical Engineering

- 54 Scientific, Surgical and Photographic Instruments, etc.
- 55 Watches and Clocks
- 56 Electrical Machinery
- 57 Insulated Wires and Cables
- 58 Telegraph and Telephone Apparatus
  59 Radio and Other Electronic Apparatus
- 60 Domestic Electrical Appliances
- 61 Miscellaneous Electrical Goods 62 Shipbuilding and Marine Engineering 63 Motor Vehicle Manufacturing
- 64 Motor Cycle, Three-wheel Vehicle and Pedal
- Cycle Manufacturing
- 65 Aircraft Manufacturing and Repairing
- 66 Locomotives and Railway Track Equipment 67 Railway Carriages and Wagons and Trams
- 68 Perambulators, Hand-trucks, etc.
- 69 Tools and Implements

## Part

- 70 Cutlery
- 71 Bolts, Nuts, Screws, Rivets, etc.
- 72 Wire and Wire Manufactures 73 Cans and Metal Boxes
- 74 Jewellery, Plate and Refining of Precious
- Metals 75 Miscellaneous Metal Manufactures 76 Production of Man-made Fibres
- 77 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 78 Weaving of Cotton, Linen and Man-made Fibres
- 79 Woollen and Worsted
- 80 Jute
- 81 Rope, Twine and Net
- 82 Hosiery and Other Knitted Goods
- 83 Lace
- 84 Carpets 85 Narrow Fabrics
- 86 Household Textiles and Handkerchiefs
- 87 Canvas Goods and Sacks 88 Textile Finishing
- 89 Asbestos
- 90 Miscellaneous Textile Industries
- 91 Textile Converting
  92 Leather (Tanning and Dressing) and Fellmongery
- 93 Leather Goods
- 94 Fur
- 95 Weatherproof Outerwear

- 96 Men's and Boys' Tailored Outerwear 97 Women's and Girls' Tailored Outerwear 98 Overalls and Men's Shirts, Underwear, etc. 99 Dresses, Lingerie, Infants' Wear, etc.
- 100 Hats, Caps and Millinery
  101 Corsets and Miscellaneous Dress Industries
- 102 Gloves
- 103 Footwear
- 104 Bricks, Fireclay and Refractory Goods
- 105 Pottery 106 Glass
- 107 Cement
- 108 Abrasives 109 Miscellaneous Building Materials, etc.
- 110 Timber
- 111 Furniture and Upholstery
- 112 Bedding, etc. 113 Shop and Office Fitting
- 114 Wooden Containers and Baskets
- 115 Miscellaneous Wood and Cork Manufactures
- 116 Paper and Board 117 Cardboard Boxes, Cartons and Fibre-board
- Packing Cases
- 118 Miscellaneous Manufactures of Paper and Board 119 Printing and Publishing of Newspapers and
- Periodicals 120 General Printing, Publishing, Bookbinding, Engraving, etc.
- 121 Rubber
- 122 Linoleum, Leathercloth, etc.
- 123 Brushes and Brooms
- 124 Toys, Games and Sports Equipment
- 125 Miscellaneous Stationers' Goods
- 126 Plastics Moulding and Fabricating 127 Miscellaneous Manufacturing Industries
- 128 Construction
- 129 Gas 130 Electricity
- 131 Water Supply 132 Index of Products 133 Summary Volume
- 134 Summary Volume 135 Summary Volume

## CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net). No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables,
Part II (H.M.S.O., 1956. Price 6s. net).
Channels of sales, 1948
Payments for services, 1948
Shift working, 1951
Power equipment, 1951
Prime movers, 1951
Analysis of periods covered by census returns,
1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net). Fuel purchased

Gas produced in certain industries
Electricity generated, purchased and sold
Materials purchased: iron and steel; nonferrous metals; paint; plastics materials;
cotton and rayon, nylon, etc. textiles; timber;
packing materials; replacement parts for plant
etc. (Information about purchases of other
materials is given in The Report on the Census
of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (h.M.S.O., 1959. Price 7s. net). Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net). Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

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